

(use as many sheets as necessary)

Sheet

1

of

1

Filing Date

November 25, 2003

First Named Inventor

Stephen A. FACTOR et al.

Group Art Unit

Not Assigned

Examiner Name _____

Not Assigned

Attorney Docket Number

El-7615

[illegible]

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|-----------------------|-------------------------|---------------------|--------------------------------------|---|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | | | Name of Patentee or Applicant of Cited Document | Date of Publication of Cited Document MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T _a |
| | | Office ³ | Number ⁴ | Kind Code ⁵ (if known) | | | | |
| CPT | | CN | 1334323 | | YUNHUA et al. | 06-02-2002 | | |
| | | DE | 3429584 | | ISTVAN et al. | 11-04-1985 | | X |
| | | EP | 04026457.4 | | FACTOR et al. | 06-01-2005 | | |
| | | GB | 490,064 | | TOUSTOU | 02-17-1937 | | |
| | | GB | 1,189,356 | | KUKIN | 04-22-1970 | | |
| | | GB | 2 248 068 | A | SEXTON et al. | 03-25-1992 | | |
| | | JP | 2003261890 | | MITSUO et al. | 09-19-2003 | | X |
| | | JP | 2003261889 | | MITSUO et al. | 09-19-2003 | | X |
| | | JP | 2002038169 | | MITSUO et al. | 02-06-2002 | | X |
| | | WO | 00/58422 | A1 | CAPROTTI et al. | 10-05-2000 | | |
| | | WO | 95/23836 | A1 | ORR | 09-08-1995 | | |
| | | WO | 82/01375 | A1 | NILSSON et al. | 04-29-1982 | | |

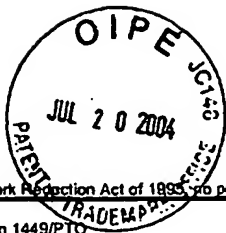
**Examiner
Signature**

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO:** Assistant Commissioner for Patents, Washington, DC 20231.



PTO/SB/08A (08-03)

Approved for use through 07/31/2005. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 2

Complete if Known

| | |
|------------------------|-----------------------------|
| Application Number | 10/721,150 |
| Filing Date | November 25, 2003 |
| First Named Inventor | Stephen A. FACTOR, et al. |
| Art Unit | Unassigned; Conf. No.: 5545 |
| Examiner Name | Unassigned |
| Attorney Docket Number | EI-7615 |

U. S. PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Document Number | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
|-----------------------|--------------------------|--|--------------------------------|--|---|
| | | Number-Kind Code ² (if known) | | | |
| CDT | | US- 2818417 | 12-31-1957 | Brown, et al. | |
| | | US- 4568357 | 02-04-1986 | Simon | |
| | | US- 4674447 | 06-23-1987 | Davis | |
| | | US- 5113803 | 05-19-1992 | Hollran, et al. | |
| | | US- 5599357 | 02-04-1997 | Leeper | |
| | | US- 5919276 | 07-06-1999 | Jeffrey | |
| | | US- 5944858 | 08-31-1999 | Wallace | |
| | | US- 6197075 | 03-06-2001 | Muir, et al. | |
| | | US- 6632257 | 10-14-2003 | Feitelberg, et al. | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |
| | | US- | | | |

FOREIGN PATENT DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ⁴ |
|-----------------------|--------------------------|---|-----------------------------------|--|---|----------------|
| | | Country Code ² Number ³ Kind Code ⁵ (if known) | | | | |
| CDT | | EP 0 466 512 B1 | 06-29-1994 | Leeper | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

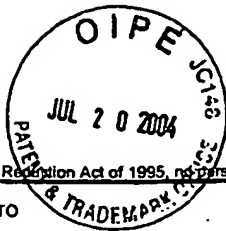
Examiner
SignatureDate
Considered

9/06

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



PTO/SB/08B (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|-----------------------------|
| Application Number | 10/721,156 |
| Filing Date | November 25, 2003 |
| First Named Inventor | Stephen A. FACTOR, et al. |
| Art Unit | Unassigned; Conf. No.: 5545 |
| Examiner Name | Unassigned |
| Attorney Docket Number | EI-7615 |

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

| Examiner Initials* | Cite No. ¹ | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
|-----------------------|--------------------------|---|----------------|
| CDT | | DOBBINS et al., "The Evolution of Soot Precursor Particles in a Diffusion Flame," Combustion and Flame, 115, pp 285-298 (1998). | |
| | | VANDER WAL et al., "Soot Oxidation: Dependence Upon Initial Nanostructure," Combustion and Flame, 134, pp 1-9, (2003). | |
| | | HAYNES et al., "The Effect of Metal Additives on the Formation of Soot in Premixed Flames," 17th Symposium on Combustion, pp 1365-1374, The Combustion Institute 1979. | |
| | | HOWARD et al., "Soot Control by Fuel Additives," Prog. Energy Combust. Sci., Vol. 6, pp 263-276, Pergamon Press Ltd. 1980. | |
| CDT | | COTTON et al., "The Suppression of Soot Emissions From Flames by Metal Additives," Combustion and Flame, 17, p. 87 (1971). | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

| | | | |
|-----------------------|--|--------------------|------|
| Examiner Signature | | Date Considered | 9/06 |
|-----------------------|--|--------------------|------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.